

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:  
06.05.1999    Bulletin 1999/18

(51) Int Cl.<sup>6</sup>: E21B 10/52, E21B 10/56

(43) Date of publication A2:  
13.01.1999    Bulletin 1999/02

(21) Application number: 98305480.0

(22) Date of filing: 09.07.1998

<div>(84) Designated Contracting States: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE Designated Extension States: AL LT LV MK RO SI</div> <div>(30) Priority: 09.07.1997 US 890093</div> <div>(71) Applicant: BAKER HUGHES INCORPORATED Houston, Texas 77027 (US)</div>	<div>(72) Inventors:<ul style="list-style-type: none"><li>• Overstreet, James L. Webster, Texas 77598 (US)</li><li>• Scott, Danny E. Montgomery, Texas 77356 (US)</li></ul></div> <div>(74) Representative: Holmes, Matthew Peter et al MARKS &amp; CLERK, Sussex House, 83-85 Mosley Street Manchester M2 3LG (GB)</div>
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(54)    **Drill bit with cutting elements having a nanocrystalline diamond cutting surface**

(57)    An earth boring bit is shown of the type used to drill subterranean formations. The bit body has an upper extent which is threaded for connection in a drill string extending to the earth's surface. A lower extent of the

bit body has a number of cutting elements mounted thereon which engage an earthen formation and cut the formation. At least selected ones of the cutting elements incorporate a nanocrystalline diamond material.



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## EUROPEAN SEARCH REPORT

Application Number  
EP 98 30 5480

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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 16 March 1999	Examiner Rampelmann, K
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document</p> <p>T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons</p> <p>&amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 G3 B2 (P04C01)



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EPO FORM 1503 03/82 (P04C01)



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